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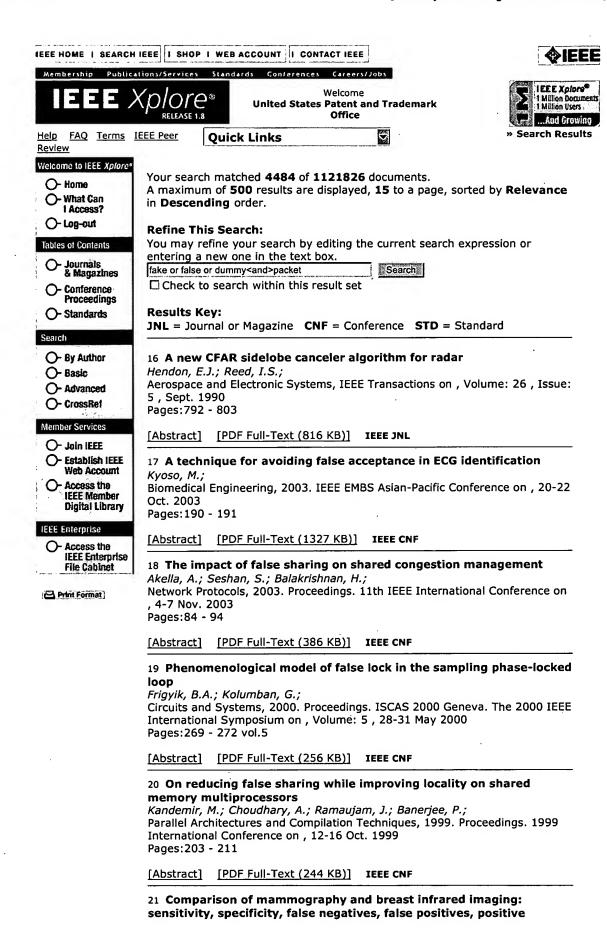, Issue: 3 , June 2003
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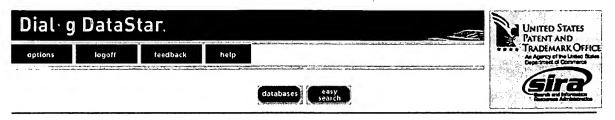Electronics Letters , Volume: 25 , Issue: 25 , 7 Dec. 1989
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5	INZZ	hops	unrestricted	1667	show titles
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7	INZZ	2 WITH 5	unrestricted	1	show titles
8	INZZ	1 WITH 2	unrestricted	0	-
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1 Securing wireless applications: On securely enabling intermediary-based services and performance ■
enhancements for wireless mobile users
Sneha Kasera, Semyon Mizikovsky, Ganapathy S. Sundaram, Thomas Y. C. Woo
September 2003 **Proceedings of the 2003 ACM workshop on Wireless security**
Full text available: pdf(310.72 KB)   Additional Information: full citation, abstract, references, index terms

Intermediary-based services and performance optimizations are increasingly being considered, by
network service providers, with a view towards offering value-added services and improving the user
experience of wireless mobile clients at reduced costs. However, in the presence of an end-to-end
security mechanism such as IPsec, it is impossible to offer such services without fully compromising
end-to-end security. We propose a new architecture to enable intermediary-based services for wireless
mob ...

Keywords: IPsec, end-to-end security, intermediary, mobile, performance, wireless

2 Digital village: Anonymizing the net   ▬
Hal Berghel, Kim Womack
April 2003 **Communications of the ACM**, Volume 46 Issue 4
Full text available: pdf(130.14 KB)   Additional Information: full citation, abstract, index terms
html(24.78 KB)

Sanitizing packets for fun and profit.

3 Anonymizing networks: New covert channels in HTTP: adding unwitting Web browsers to anonymity ▬
sets
Matthias Bauer
October 2003 **Proceedings of the 2003 ACM workshop on Privacy in the electronic society**
Full text available: pdf(158.18 KB)   Additional Information: full citation, abstract, references, index terms

This paper presents new methods enabling anonymous communication on the Internet. We describe a
new protocol that allows us to create an anonymous overlay network by exploiting the web browsing
activities of regular users. We show that the overlay net work provides an anonymity set greater than the
set of senders and receivers in a realistic threat model. In particular, the protocol provides
unobservability in our threat model.

Keywords: HTTP, anonymity, covert channel, mix network

4 Cellular and Cryptographic Applications: Cryptographic rights management of FPGA intellectual ▬
property cores
Tom Kean
February 2002 **Proceedings of the 2002 ACM/SIGDA tenth international symposium on**
Field-programmable gate arrays
Full text available: pdf(171.79 KB)   Additional Information: full citation, abstract, references, index terms

As the capacity of FPGA's increases to millions of equivalent gates the use of Intellectual Property (IP)
cores becomes increasingly important to control design complexity. FPGA's are becoming platforms for
integrating a system solution from components supplied by independent vendors in the same way as
printed circuit boards provided a platform for earlier generations of designers. However, the current
commercial model for IP cores involves large up-front license fees reminiscent of ASIC NRE cha ...

Keywords: FPGA, cryptography, intellectual property, rights management

5 KHIP—a scalable protocol for secure multicast routing

Clay Shields, J. J. Garcia-Luna-Aceves

August 1999 **ACM SIGCOMM Computer Communication Review , Proceedings of the conference on Applications, technologies, architectures, and protocols for computer communication**, Volume 29 Issue 4

Full text available: pdf(1.54 MB)   Additional Information: full citation, abstract, references, citings, index terms

> We present Keyed HIP (KHIP), a secure, hierarchical multicast routing protocol. We show that other shared-tree multicast routing protocols are subject to attacks against the multicast routing infrastructure that can isolate receivers or domains or introduce loops into the structure of the multicast routing tree. KHIP changes the multicast routing model so that only trusted members are able to join the multicast tree. This protects the multicast routing against attacks that could form branches to ...

6 Low-loss TCP/IP header compression for wireless networks

Mikael Degermark, Mathias Engan, Björn Nordgren, Stephen Pink

October 1997 **Wireless Networks,** Volume 3 Issue 5

Full text available: pdf(534.08 KB)   Additional Information: full citation, abstract, references, index terms

> Wireless is becoming a popular way to connect mobile computers to the Internet and other networks. The bandwidth of wireless links will probably always be limited due to properties of the physical medium and regulatory limits on the use of frequencies for radio communication. Therefore, it is necessary for network protocols to utilize the available bandwidth efficiently. Headers of IP packets are growing and the bandwidth required for transmitting headers is increasing. With the coming of I ...

7 What TCP/IP protocol headers can tell us about the web

F. Donelson Smith, Félix Hernández Campos, Kevin Jeffay, David Ott

June 2001 **ACM SIGMETRICS Performance Evaluation Review , Proceedings of the 2001 ACM SIGMETRICS international conference on Measurement and modeling of computer systems,** Volume 29 Issue 1

Full text available: pdf(1.55 MB)   Additional Information: full citation, abstract, references, citings

> We report the results of a large-scale empirical study of web traffic. Our study is based on over 500 GB of TCP/IP protocol-header traces collected in 1999 and 2000 (approximately one year apart) from the high-speed link connecting The University of North Carolina at Chapel Hill to its Internet service provider. We also use a set of smaller traces from the NLANR repository taken at approximately the same times for comparison. The principal results from this study are: (1) empirical data suitable ...

8 Low-loss TCP/IP header compression for wireless networks

Mikael Degermark, Mathias Engan, Björn Nordgren, Stephen Pink

November 1996 **Proceedings of the 2nd annual international conference on Mobile computing and networking**

Full text available: pdf(1.51 MB)   Additional Information: full citation, references, citings, index terms

9 Privacy/anonymity: The blocker tag: selective blocking of RFID tags for consumer privacy

Ari Juels, Ronald L. Rivest, Michael Szydlo

October 2003 **Proceedings of the 10th ACM conference on Computer and communications security**

Full text available: pdf(223.05 KB)   Additional Information: full citation, abstract, references, index terms

> We propose the use of "selective blocking" by "blocker tags" as a way of protecting consumers from unwanted scanning of RFID tags attached to items they may be carrying or wearing.While an ordinary RFID tag is a simple, cheap (e.g. five-cent) passive device intended as an "electronic bar-code" for use in supply-chain management, a blocker tag is a cheap passive RFID device that can simulate many ordinary RFID tags simultaneously. When carried by a consumer, a blocker tag thus "blocks" RFID reade ...

> **Keywords:** RFID tags, barcodes, privacy, tree walking

10 Security: HIDE: an infrastructure for efficiently protecting information leakage on the address bus

Xiaotong Zhuang, Tao Zhang, Santosh Pande

October 2004 **Proceedings of the 11th international conference on Architectural support for programming languages and operating systems**

Full text available: pdf(216.31 KB)   Additional Information: full citation, abstract, references, citings, index terms

> XOM-based secure processor has recently been introduced as a mechanism to provide copy and tamper resistant execution. XOM provides support for encryption/decryption and integrity checking. However, neither XOM nor any other current approach adequately addresses the problem of information leakage via the address bus. This paper shows that without address bus protection, the XOM model is severely crippled. Two realistic attacks are shown and experiments show that 70% of the code might be cracked ...

> **Keywords:** address bus leakage protection, secure processor

11 A unified header compression framework for low-bandwidth links

Jeremy Lilley, Jason Yang, Hari Balakrishnan, Srinivasan Seshan

August 2000 **Proceedings of the 6th annual international conference on Mobile computing and networking**

Full text available: pdf(1.35 MB)   Additional Information: full citation, abstract, references, citings, index terms

Compressing protocol headers has traditionally been an attractive way of conserving bandwidth over low-speed links, including those in wireless systems. However, despite the growth in recent years in the number of end-to-end protocols beyond TCP/IP, header compression deployment for those protocols has not kept pace. This is in large part due to complexities in implementation, which often requires a detailed knowledge of kernel internals, and a lack of a common way of pursuing the general p ...

12 A 50-Gb/s IP router

Craig Partridge, Philip P. Carvey, Ed Burgess, Isidro Castineyra, Tom Clarke, Lise Graham, Michael Hathaway, Phil Herman, Allen King, Steve Kohalmi, Tracy Ma, John Mcallen, Trevor Mendez, Walter C. Milliken, Ronald Pettyjohn, John Rokosz, Joshua Seeger, Michael Sollins, Steve Storch, Benjamin Tober, Gregory D. Troxel

June 1998 **IEEE/ACM Transactions on Networking (TON),** Volume 6 Issue 3

Full text available: pdf(133.28 KB)   Additional Information: full citation, references, citings, index terms, review

Keywords: data communications, internetworking, packet switching, routing

13 IP next generation overview

Robert M. Hinden

June 1996 **Communications of the ACM,** Volume 39 Issue 6

Full text available: pdf(610.92 KB)   Additional Information: full citation, references, index terms, review

14 Session 7B: Tradeoffs in probabilistic packet marking for IP traceback

Micah Adler

May 2002 **Proceedings of the thiry-fourth annual ACM symposium on Theory of computing**

Full text available: pdf(318.24 KB)   Additional Information: full citation, abstract, references, citings, index terms

There has been considerable recent interest in probabilistic packet marking schemes for the problem of tracing a sequence of network packets back to an anonymous source. An important consideration for such schemes is the number of packet header bits that need to be allocated to the marking protocol. Let b denote this value. All previous schemes belong to a class of protocols for which b must be at least log n, where n is the number of bits used to represent the path o ...

15 Session 2: secure Web services: Designing a distributed access control processor for network services on the Web

Reiner Kraft

November 2002 **Proceedings of the 2002 ACM workshop on XML security**

Full text available: pdf(301.14 KB)   Additional Information: full citation, abstract, references, index terms

The service oriented architecture (SOA) is gaining more momentum with the advent of network services on the Web. A programmable and machine accessible Web is the vision of many, and might represent a step towards the semantic Web. However, security is a crucial requirement for the serious usage and adoption of the Web services technology. This paper enumerates design goals for an access control model for Web services. It then introduces an abstract general model for Web services components, along ...

Keywords: Web services, XML, access control, security

16 Securing ATM networks

Shaw-Cheng Chuang

January 1996 **Proceedings of the 3rd ACM conference on Computer and communications security**

Full text available: pdf(1.53 MB)   Additional Information: full citation, references, index terms

17 Flexible routing and addressing for a next generation IP

Paul Francis, Ramesh Govindan

October 1994 **ACM SIGCOMM Computer Communication Review , Proceedings of the conference on Communications architectures, protocols and applications**, Volume 24 Issue 4

Full text available: pdf(1.20 MB)   Additional Information: full citation, abstract, references, citings, index terms, review

Due to a limited address space and poor scaling of backbone routing information, the Internet Protocol (IP) is rapidly reaching the end of its useful lifetime. The Simple Internet Protocol Plus (SIPP), a proposed next generation Internet Protocol, solves these problems with larger Internet layer addresses. In addition, SIPP provides a number of advanced routing and addressing capabilities including mobility, extended (variable-length) addressing, provider selection, and certain forms of mul ...

18 Mobile IP and the IETF

Charles E. Perkins

April 2002 **ACM SIGMOBILE Mobile Computing and Communications Review**, Volume 6 Issue 2

Full text available: pdf(59.51 KB)   Additional Information: full citation, index terms

19 IP switching—ATM under IP

Peter Newman, Greg Minshall, Thomas L. Lyon

April 1998 **IEEE/ACM Transactions on Networking (TON)**, Volume 6 Issue 2

Full text available: pdf(154.32 KB)   Additional Information: full citation, references, citings, index terms

Keywords: Internet protocol, asynchronous transfer mode, broadband communication, communication system control, data communication, packet switching, protocols

20 Traffic characterization: Characteristics of fragmented IP traffic on internet links

Colleen Shannon, David Moore, k claffy

November 2001 **Proceedings of the 1st ACM SIGCOMM Workshop on Internet Measurement**

Full text available: pdf(2.36 MB)   Additional Information: full citation, abstract, references, citings, index terms

Fragmented IP traffic is a unique component of the overall mix of traffic on the Internet. Many assertions about the nature and extent of fragmented traffic are anecdotal rather than empirical. In this paper we examine the causes and attributes of measured fragment traffic and contrast those results with commonly cited beliefs. In particular, the effects of NFS, streaming media, networked video games, and tunneled traffic are quantified, and we estimate the prevalence of packet fragmentation due ...

Keywords: CoralReef, TCP/IP, fragment, fragmentation

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1 Fragmentation considered harmful
Christopher A. Kent, Jeffrey C. Mogul
January 1995 **ACM SIGCOMM Computer Communication Review,** Volume 25 Issue 1
Full text available: 🗎 pdf(1.25 MB)   Additional Information: full citation, abstract, index terms

> Internetworks can be built from many different kinds of networks, with varying limits on maximum packet size. Throughput is usually maximized when the largest possible packet is sent; unfortunately, some routes can carry only very small packets. The IP protocol allows a gateway to *fragment* a packet if it is too large to be transmitted. Fragmentation is at best a necessary evil; it can lead to poor performance or complete communication failure. There are a variety of ways to reduce the lik ...

2 FLIP: a flexible interconnection protocol for heterogeneous internetworking
Ignacio Solis, Katia Obraczka
August 2004 **Mobile Networks and Applications,** Volume 9 Issue 4
Full text available: 🗎 pdf(549.43 KB)   Additional Information: full citation, abstract, references, index terms

> This paper describes the Flexible Interconnection Protocol, or FLIP, whose main goal is to allow interconnection of heterogeneous devices with varying power, processing, and communication capabilities, ranging from simple sensors to more powerful computing devices such as laptops and desktops. The vision is that FLIP will be used to interconnect such devices forming clouds in the farthest branches/leaves of the Internet, while still providing connectivity with the existing IP-based Internet infr ...

> **Keywords:** flexible headers, heterogeneous networks, optimized headers, sensor networks

3 Low-loss TCP/IP header compression for wireless networks
Mikael Degermark, Mathias Engan, Björn Nordgren, Stephen Pink
October 1997 **Wireless Networks,** Volume 3 Issue 5
Full text available: 🗎 pdf(534.08 KB)   Additional Information: full citation, abstract, references, index terms

> Wireless is becoming a popular way to connect mobile computers to the Internet and other networks. The bandwidth of wireless links will probably always be limited due to properties of the physical medium and regulatory limits on the use of frequencies for radio communication. Therefore, it is necessary for network protocols to utilize the available bandwidth efficiently. Headers of IP packets are growing and the bandwidth required for transmitting headers is increasing. With the coming of I ...

4 altPm: a strategy for integrating IP with ATM
Guru Parulkar, Douglas C. Schmidt, Jonathan S. Turner
October 1995 **ACM SIGCOMM Computer Communication Review , Proceedings of the conference on Applications, technologies, architectures, and protocols for computer communication,** Volume 25 Issue 4
Full text available: 🗎 pdf(1.17 MB)   Additional Information: full citation, abstract, references, citings, index terms

> This paper describes research on new methods and architectures that enable the synergistic combination of IP and ATM technologies. We have designed a highly scalable gigabit IP router based on an ATM core and a set of tightly coupled general-purpose processors. This a^lt^pm (pronounced "IP on ATM" or, if you prefer, "ip-attem") architecture provides flexibility in congestion control, routing, resource management, and packe ...

5 Low-loss TCP/IP header compression for wireless networks
Mikael Degermark, Mathias Engan, Björn Nordgren, Stephen Pink
November 1996 **Proceedings of the 2nd annual international conference on Mobile computing and networking**
Full text available: 🗎 pdf(1.51 MB)   Additional Information: full citation, references, citings, index terms

6 Routing: Implicit source routes for on-demand ad hoc network routing

Yih-Chun Hu, David B. Johnson

October 2001 **Proceedings of the 2nd ACM international symposium on Mobile ad hoc networking & computing**

Full text available: pdf(175.52 KB)   Additional Information: full citation, abstract, references, citings, index terms

> In an ad hoc network, the use of *source routing* has many advantages, including simplicity, correctness, and flexibility. For example, all routing decisions for a packet are made by the sender of the packet, avoiding the need for up-to-date routing information at intermediate nodes and allowing the routes used to be trivially guaranteed loop-free. It is also possible for the sender to use different routes for different packets, without requiring coordination or explicit support by the imt ...

7 Sirpent: a high-performance internetworking approach

D. R. Cheriton

August 1989 **ACM SIGCOMM Computer Communication Review , Symposium proceedings on Communications architectures & protocols,** Volume 19 Issue 4

Full text available: pdf(1.65 MB)   Additional Information: full citation, abstract, references, citings, index terms

> A clear target for computer communication technology is to support a high-performance global internetwork. Current internetworking approaches use either concatenated virtual circuits, as in X.75, or a "universal" internetwork datagram, as in the DoD Internet IP protocol and the ISO connectionless network protocol (CLNP). Both approaches have significant disadvantages. This paper describes Sirpent™ (Source Internetwork Routing Protocol with Extended Network Trans ...

8 Protocols: Weak duplicate address detection in mobile ad hoc networks

Nitin H. Vaidya

June 2002 **Proceedings of the 3rd ACM international symposium on Mobile ad hoc networking & computing**

Full text available: pdf(216.31 KB)   Additional Information: full citation, abstract, references, citings, index terms

> Auto-configuration is a desirable goal in implementing mobile ad hoc networks. Specifically, automated dynamic assignment (without manual intervention) of IP addresses is desirable. In traditional networks, such dynamic address assignment is often performed using the Dynamic Host Configuration Protocol (DHCP). Implementing DHCP, however, requires access to a DHCP server. In mobile ad hoc networks, it is difficult to guarantee access to a DHCP server, since ad hoc networks can become partitioned ...

> **Keywords:** auto-configuration, duplicate address detection, mobile ad hoc networks

9 Routing and transport: Adaptive demand-driven multicast routing in multi-hop wireless ad hoc networks

Jorjeta G. Jetcheva, David B. Johnson

October 2001 **Proceedings of the 2nd ACM international symposium on Mobile ad hoc networking & computing**

Full text available: pdf(257.98 KB)   Additional Information: full citation, abstract, references, citings, index terms

> The use of on-demand techniques in routing protocols for multi-hop wireless ad hoc networks has been shown to have significant advantages in terms of reducing the routing protocol's overhead and improving its ability to react quickly to topology changes in the network. A number of on-demand *multicast* routing protocols have been proposed, but each also relies on significant periodic (non-on-demand) behavior within portions of the protocol. This paper presents the design and initial evluati ...

10 Session 10: active measurement: Active probing using packet quartets

Attila Pásztor, Darryl Veitch

November 2002 **Proceedings of the 2nd ACM SIGCOMM Workshop on Internet measurment**

Full text available: pdf(1.38 MB)   Additional Information: full citation, abstract, references, citings, index terms

> A significant proportion of link bandwidth measurement methods are based on IP's ability to control the number of hops a packet can traverse along a route via the time-to-live (TTL) field of the IP header. A new delay variation based path model is introduced and used to analyse the fundamental networking effects underlying these methods. Insight from the model allows new link estimation methods to be derived and analysed. A new method family based on packet quartets: a combination of two packet ...

> **Keywords:** TTL, active probing, bottleneck bandwidth, cross-traffic, delay variation, internet measurement

11 Best poster papers from MobiHoc 2002: An on-demand minimum energy routing protocol for a wireless ad hoc network

Sheetalkumar Doshi, Shweta Bhandare, Timothy X Brown

June 2002 **ACM SIGMOBILE Mobile Computing and Communications Review,** Volume 6 Issue 3

Full text available: pdf(203.93 KB)   Additional Information: full citation, abstract, references, citings, index terms

A minimum energy routing protocol reduces the energy consumption of the nodes in a wireless ad hoc network by routing packets on routes that consume the minimum amount of energy to get the packets to their destination. This paper identifies the necessary features of an *on-demand* minimum energy routing protocol and suggests mechanisms for their implementation. We highlight the importance of efficient caching techniques to store the minimum energy route information and propose the use of an ...

12 Special issue on wireless extensions to the internet: A cooperative approach to user mobility
Robin Kravets, Casey Carter, Luiz Magalhães
October 2001 **ACM SIGCOMM Computer Communication Review**, Volume 31 Issue 5

Full text available: pdf(1.34 MB)   Additional Information: full citation, abstract, references

We propose a networking model that treats a user's set of personal devices as a MObile grouPEd Device, a MOPED, which appears as a single entity to the rest of the Internet. All communication for a user is directed to this point of presence. As the user moves through different environments, the devices cooperate to provide the user with access to all available communication resources. We present the basic networking functionality necessary to enable the operation of MOPEDs and their integrati ...

13 Developments in simulation and instrumentation: Topology discovery for public IPv6 networks
Daniel G. Waddington, Fangzhe Chang, Ramesh Viswanathan, Bin Yao
July 2003   **ACM SIGCOMM Computer Communication Review**, Volume 33 Issue 3

Full text available: pdf(182.34 KB)   Additional Information: full citation, abstract, references, index terms

In just three decades the Internet has grown from a small experimental research network into a complex network of routers, switches, and hosts. Understanding the topology of such large scale networks is essential to the procurement of good architectural design decisions, particularly with respect to address allocation and distribution schemes.A number of techniques for IPv4 network topology already exist. Of these ICMP-based probing has shown to be most useful in determining router-level topolog ...

Keywords: IPv6, IPv6 network topology discovery, network measurement, network probing, topology inference

14 IP switching—ATM under IP
Peter Newman, Greg Minshall, Thomas L. Lyon
April 1998 **IEEE/ACM Transactions on Networking (TON)**, Volume 6 Issue 2

Full text available: pdf(154.32 KB)   Additional Information: full citation, references, citings, index terms

Keywords: Internet protocol, asynchronous transfer mode, broadband communication, communication system control, data communication, packet switching, protocols

15 Special issue on wireless extensions to the internet: Fast handovers and context transfers in mobile networks
Rajeev Koodli, Charles E. Perkins
October 2001 **ACM SIGCOMM Computer Communication Review**, Volume 31 Issue 5

Full text available: pdf(1.16 MB)   Additional Information: full citation, abstract, references

We describe recent work enabling fast handovers and context transfer between access routers offering Internet connectivity for mobile (often wireless) nodes. We present our framework for engineering general context transfer solutions, and a protocol which uses the framework to provide a simple yet general mechanism for carrying out context transfers during handovers. Since our mechanism operates at the network level, we expect that it will be the most expedient way to provide for seamless han ...

Keywords: IPv6, context transfer, fast handover, mobile IP, mobile network

16 Papers from MC^{2}R open call: Lifetime packet discard for efficient real-time transport over cellular links
Andrei Gurtov, Reiner Ludwig
October 2003 **ACM SIGMOBILE Mobile Computing and Communications Review**, Volume 7 Issue 4

Full text available: pdf(644.28 KB)   Additional Information: full citation, abstract, references, citings

Mobile cellular users often experience significant delay jitter that undermines quality of real-time applications. Delay jitter can cause unnecessary delivery of stale packets with passed playback deadline and duplicate packets retransmitted by the end host after experiencing a timeout. With Lifetime Packet Discard (LPD) a flow adaptive link can tailor the trade-off between the maximum delay jitter and

reliability if quality of service requirements of a flow are known. We propose using an IP opt ...

17. Multicast routing in internetworks and extended LANs
S. E. Deering
August 1988 **ACM SIGCOMM Computer Communication Review , Symposium proceedings on Communications architectures and protocols,** Volume 18 Issue 4
Full text available: pdf(1.41 MB)   Additional Information: full citation, abstract, references, citings, index terms

Multicasting is used within local-area networks to make distributed applications more robust and more efficient. The growing need to distribute applications across multiple, interconnected networks, and the increasing availability of high-performance, high-capacity switching nodes and networks, lead us to consider providing LAN-style multicasting across an internetwork. In this paper, we propose extensions to two common internetwork routing algorithms—distance-vector routing and link- ...

18 Multicast routing in internetworks and extended LANs
Stephen E. Deering
January 1995 **ACM SIGCOMM Computer Communication Review,** Volume 25 Issue 1
Full text available: pdf(1.37 MB)   Additional Information: full citation, abstract, index terms

Multicasting is used within local-area networks to make distributed applications more robust and more efficient. The growing need to distribute applications across multiple, interconnected networks, and the increasing availability of high-performance, high-capacity switching nodes and networks, lead us to consider providing LAN-style multicasting across an internetwork. In this paper, we propose extensions to two common internetwork routing algorithms---distance-vector routing and link-state rou ...

19 Routing II: Tree based MPLS routing
Anupam Gupta, Amit Kumar, Mikkel Thorup
June 2003 **Proceedings of the fifteenth annual ACM symposium on Parallel algorithms and architectures**
Full text available: pdf(122.41 KB)   Additional Information: full citation, abstract, references, index terms

MPLS (MultiProtocol Label Switching) is a new technology proposed by the IETF [4,10] for network routing, and is being increasingly deployed by the largest Internet service providers. The MPLS technology differs from conventional network protocols in a crucial way: instead of reading the entire packet header at all switching points, the analysis of the packet header is done just *once*, when the packet header is assigned a *stack of labels*, and thenceforth, each switching point or rou ...

Keywords: MPLS routing, networks, routing algorithms

20 DOS protection: Hop-count filtering: an effective defense against spoofed DDoS traffic
Cheng Jin, Haining Wang, Kang G. Shin
October 2003 **Proceedings of the 10th ACM conference on Computer and communications security**
Full text available: pdf(213.86 KB)   Additional Information: full citation, abstract, references, index terms

IP spoofing has been exploited by Distributed Denial of Service (DDoS) attacks to (1) conceal flooding sources and localities in flooding traffic, and (2) coax legitimate hosts into becoming reflectors, redirecting and amplifying flooding traffic. Thus, the ability to filter spoofed IP packets near victims is essential to their own protection as well as to their avoidance of becoming involuntary DoS reflectors. Although an attacker can forge any field in the IP header, he or she cannot falsify t ...
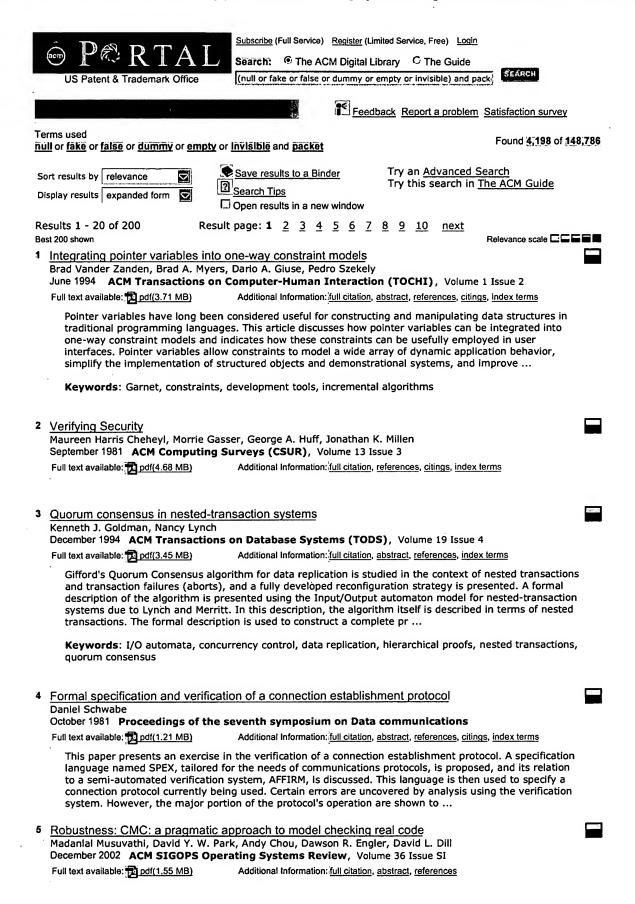
Keywords: DDoS defense, TTL, host-based, networking, security

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1 Integrating pointer variables into one-way constraint models
Brad Vander Zanden, Brad A. Myers, Dario A. Giuse, Pedro Szekely
June 1994   **ACM Transactions on Computer-Human Interaction (TOCHI),** Volume 1 Issue 2
Full text available: 🄿 pdf(3.71 MB)   Additional Information: full citation, abstract, references, citings, index terms

Pointer variables have long been considered useful for constructing and manipulating data structures in
traditional programming languages. This article discusses how pointer variables can be integrated into
one-way constraint models and indicates how these constraints can be usefully employed in user
interfaces. Pointer variables allow constraints to model a wide array of dynamic application behavior,
simplify the implementation of structured objects and demonstrational systems, and improve ...

Keywords: Garnet, constraints, development tools, incremental algorithms

2 Verifying Security
Maureen Harris Cheheyl, Morrie Gasser, George A. Huff, Jonathan K. Millen
September 1981 **ACM Computing Surveys (CSUR),** Volume 13 Issue 3
Full text available: 🄿 pdf(4.68 MB)   Additional Information: full citation, references, citings, index terms

3 Quorum consensus in nested-transaction systems
Kenneth J. Goldman, Nancy Lynch
December 1994 **ACM Transactions on Database Systems (TODS),** Volume 19 Issue 4
Full text available: 🄿 pdf(3.45 MB)   Additional Information: full citation, abstract, references, index terms

Gifford's Quorum Consensus algorithm for data replication is studied in the context of nested transactions
and transaction failures (aborts), and a fully developed reconfiguration strategy is presented. A formal
description of the algorithm is presented using the Input/Output automaton model for nested-transaction
systems due to Lynch and Merritt. In this description, the algorithm itself is described in terms of nested
transactions. The formal description is used to construct a complete pr ...

Keywords: I/O automata, concurrency control, data replication, hierarchical proofs, nested transactions,
quorum consensus

4 Formal specification and verification of a connection establishment protocol
Daniel Schwabe
October 1981 **Proceedings of the seventh symposium on Data communications**
Full text available: 🄿 pdf(1.21 MB)   Additional Information: full citation, abstract, references, citings, index terms

This paper presents an exercise in the verification of a connection establishment protocol. A specification
language named SPEX, tailored for the needs of communications protocols, is proposed, and its relation
to a semi-automated verification system, AFFIRM, is discussed. This language is then used to specify a
connection protocol currently being used. Certain errors are uncovered by analysis using the verification
system. However, the major portion of the protocol's operation are shown to ...

5 Robustness: CMC: a pragmatic approach to model checking real code
Madanlal Musuvathi, David Y. W. Park, Andy Chou, Dawson R. Engler, David L. Dill
December 2002 **ACM SIGOPS Operating Systems Review,** Volume 36 Issue SI
Full text available: 🄿 pdf(1.55 MB)   Additional Information: full citation, abstract, references

Many system errors do not emerge unless some intricate sequence of events occurs. In practice, this means that most systems have errors that only trigger after days or weeks of execution. Model checking [4] is an effective way to find such subtle errors. It takes a simplified description of the code and exhaustively tests it on all inputs, using techniques to explore vast state spaces efficiently. Unfortunately, while model checking systems code would be wonderful, it is almost never done in pra ...

6 Bounded ignorance: a technique for increasing concurrency in a replicated system　　　　　▬
Narayanan Krishnakumar, Arthur J. Bernstein
December 1994 **ACM Transactions on Database Systems (TODS)**, Volume 19 Issue 4
Full text available: pdf(2.84 MB)   Additional Information: full citation, abstract, references, citings, index terms, review

Databases are replicated to improve performance and availability. The notion of correctness that has commonly been adopted for concurrent access by transactions to shared, possibly replicated, data is serializability. However, serializability may be impractical in high-performance applications since it imposes too stringent a restriction on concurrency. When serializability is relaxed, the integrity constraints describing the data may be violated. By allowing bounded violations of the integ ...

Keywords: concurrency control, integrity constraints, reachability analysis, replication, serializability

7. The holodeck ray cache: an interactive rendering system for global illumination in nondiffuse environments　　　　　▬
Gregory Ward, Maryann Simmons
October 1999 **ACM Transactions on Graphics (TOG)**, Volume 18 Issue 4
Full text available: pdf(935.74 KB)   Additional Information: full citation, abstract, references, citings, index terms

We present a new method for rendering complex environments using interactive, progressive, view-independent, parallel ray tracing. A four-dimensional holodeck data structure serves as a rendering target and caching mechanism for interactive walk-throughs of nondiffuse environments with full global illumination. Ray sample density varies locally according to need, and on-demand ray computation is supported in a parallel implementation. The holodeck file is stored on disk and ...

Keywords: illumination, image reconstruction, mesh generation, ray tracing, rendering system, virtual reality

8 Scalable high speed IP routing lookups　　　　　▬
Marcel Waldvogel, George Varghese, Jon Turner, Bernhard Plattner
October 1997 **ACM SIGCOMM Computer Communication Review , Proceedings of the ACM SIGCOMM '97 conference on Applications, technologies, architectures, and protocols for computer communication**, Volume 27 Issue 4
Full text available: pdf(1.66 MB)   Additional Information: full citation, abstract, references, citings, index terms

Internet address lookup is a challenging problem because of increasing routing table sizes, increased traffic, higher speed links, and the migration to 128 bit IPv6 addresses. IP routing lookup requires computing the best matching prefix, for which standard solutions like hashing were believed to be inapplicable. The best existing solution we know of, BSD radix tries, scales badly as IP moves to 128 bit addresses. Our paper describes a new algorithm for best matching prefix using binary search o ...

9 Congestion: Congestion control and fairness for many-to-one routing in sensor networks　　　　　▬
Cheng Tien Ee, Ruzena Bajcsy
November 2004 **Proceedings of the 2nd international conference on Embedded networked sensor systems**
Full text available: pdf(289.99 KB)   Additional Information: full citation, abstract, references, index terms

In this paper we propose a distributed and scalable algorithm that eliminates congestion within a sensor network, and that ensures the fair delivery of packets to a central node, or base station. We say that fairness is achieved when equal number of packets are received from each node. Since in general we have many sensors transmitting data to the base station, we consider the scenario where we have many-to-one multihop routing, noting that it can easily be extended to unicast or many-to-many ...

Keywords: congestion control, distributed algorithms, fairness, many-to-one routing, sensor networks

10 Bootstrap network resynchronization (extended abstract)　　　　　▬
Yehuda Afek, Eli Gafni
July 1991 **Proceedings of the tenth annual ACM symposium on Principles of distributed computing**
Full text available: pdf(1.01 MB)   Additional Information: full citation, references, citings, index terms

11 Computing cyclic list structures

F. Lockwood Morris, Jerald S. Schwarz

August 1980 **Proceedings of the 1980 ACM conference on LISP and functional programming**

Full text available: pdf(662.20 KB)   Additional Information: full citation, abstract, references, citings, index terms

> It is argued that list structures containing cycles are useful and unobjectionable Lisp entities. If this is so, it is desirable to have a means of computing them less foreign to the equational-definition style characteristic of Lisp than are the list-structure-altering primitives rplaca and rplacd. A notion is developed of a reasonable system of mutually recursive equations, guaranteed to have a unique solution in list structures. The notion is given in te ...

12 Static detection of dynamic memory errors

David Evans

May 1996   **ACM SIGPLAN Notices , Proceedings of the ACM SIGPLAN 1996 conference on Programming language design and implementation**, Volume 31 Issue 5

Full text available: pdf(1.17 MB)   Additional Information: full citation, abstract, references, citings, index terms

> Many important classes of bugs result from invalid assumptions about the results of functions and the values of parameters and global variables. Using traditional methods, these bugs cannot be detected efficiently at compile-time, since detailed cross-procedural analyses would be required to determine the relevant assumptions. In this work, we introduce annotations to make certain assumptions explicit at interface points. An efficient static checking tool that exploits these annotations can dete ...

13 Formal semantics for expressing optimism: the meaning of HOPE

Crispin Cowan, Hanan Lutfiyya

August 1995 **Proceedings of the fourteenth annual ACM symposium on Principles of distributed computing**

Full text available: pdf(1.14 MB)   Additional Information: full citation, references, citings, index terms

14 Abstract interaction tools: a language for user interface management systems

Jan Van Den Bos

April 1988   **ACM Transactions on Programming Languages and Systems (TOPLAS)**, Volume 10 Issue 2

Full text available: pdf(2.45 MB)   Additional Information: full citation, abstract, references, citings, index terms, review

> A language model is presented for the specification of User Interface Management Systems. The model, called the Abstract Interaction Tool (AIT) model, offers a tree-like hierarchy of interaction objects. Each object represents a subtree and can be considered as an abstract input device containing a syntax-like specification of the required input pattern. The hierarchy of specifications amounts to a system of syntactical productions with multiple control. Terminal nodes of the AIT tree repre ...

15 Session 2: secure Web services: Validating a Web service security abstraction by typing

Andrew D. Gordon, Riccardo Pucella

November 2002 **Proceedings of the 2002 ACM workshop on XML security**

Full text available: pdf(210.31 KB)   Additional Information: full citation, abstract, references, citings, index terms

> An XML web service is, to a first approximation, an RPC service in which requests and responses are encoded in XML as SOAP envelopes, and transported over HTTP. We consider the problem of authenticating requests and responses at the SOAP-level, rather than relying on transport-level security. We propose a security abstraction, inspired by earlier work on secure RPC, in which the methods exported by a web service are annotated with one of three security levels: none, authenticated, or both authen ...

Keywords: Web services, authentication, remote procedure call, type systems

16 Parallel and distributed incremental attribute evaluation algorithms for multiuser software development environments

Gail E. Kaiser, Simon M. Kaplan

January 1993 **ACM Transactions on Software Engineering and Methodology (TOSEM)**, Volume 2 Issue 1

Full text available: pdf(3.09 MB)   Additional Information: full citation, abstract, references, citings, index terms

> The problem of change propagation in multiuser software development environments distributed across a local-area network is addressed. The program is modeled as an attributed parse tree segmented among multiple user processes and changes are modeled as subtree replacements requested asynchronously by individual users. Change propagation is then implemented using decentralized incremental evaluation of an attribute grammar that defines the static semantic properties of the p ...

Keywords: attribute grammar, change propagation, distributed, incremental algorithm, parallel, reliability

17 The deductive synthesis of database transactions

Xiaolei Qian

December 1993 **ACM Transactions on Database Systems (TODS)**, Volume 18 Issue 4

Full text available: pdf(3.27 MB)   Additional Information: full citation, references, index terms

Keywords: database programming, deductive tableau, integrity constraints, search control, transaction logic, transaction synthesis

18 Finite state machine verification on MIMD machines

Nand Kumar, Ranga Vemuri

November 1992 **Proceedings of the conference on European design automation**

Full text available: pdf(689.13 KB)   Additional Information: full citation, references, index terms

19 Query evaluation techniques for large databases

Goetz Graefe

June 1993 **ACM Computing Surveys (CSUR)**, Volume 25 Issue 2

Full text available: pdf(9.37 MB)   Additional Information: full citation, abstract, references, citings, index terms, review.

Database management systems will continue to manage large data volumes. Thus, efficient algorithms for accessing and manipulating large sets and sequences will be required to provide acceptable performance. The advent of object-oriented and extensible database systems will not solve this problem. On the contrary, modern data models exacerbate the problem: In order to manipulate large sets of complex objects as efficiently as today's database systems manipulate simple records, query-processi ...

Keywords: complex query evaluation plans, dynamic query evaluation plans, extensible database systems, iterators, object-oriented database systems, operator model of parallelization, parallel algorithms, relational database systems, set-matching algorithms, sort-hash duality

20 A functional taxonomy for software watermarking

Jasvir Nagra, Clark Thomborson, Christian Collberg

January 2002 **Australian Computer Science Communications , Proceedings of the twenty-fifth Australasian conference on Computer science - Volume 4**, Volume 24 Issue 1

Full text available: pdf(1.19 MB)   Additional Information: full citation, abstract, references, citings, index terms

Despite the recent surge of interest in digital watermarking technology from the research community, we lack a comprehensive and precise terminology for software watermarking. In this paper, we attempt to fill that gap by giving distinctive names for the various protective functions served by software watermarks: Validation Mark, Licensing Mark, Authorship Mark and Fingerprinting Mark. We identify the desirable properties and specific vulnerabilities of each type of watermark, and we illustrate ...

Keywords: authentication, fingerprint, software authorship, software licensing, steganography, watermark

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21 Design and implementation of a resource sharing system as an extension to a personal computer operating system
Rita C. Summers, Mostafa Ebrahimi, John M. Marberg, Uri Zernik
May 1985   **Proceedings of the 1985 ACM SIGSMALL symposium on Small systems**
Full text available: ⊞ pdf(1.22 MB)   Additional Information: full citation, abstract, references

The software and hardware available today for personal computers provides a broad range of support for personal productivity, business applications, research, programming, and other activities. If personal computers are connected in a local area network, they can form a system whose total resources are very great compared to those of each computer. With appropriate system mechanisms, users can share these resources. We describe the design and implementation of a resource sharing ...

22 A representation of Lambda terms suitable for operations on their intensions
Gopalan Nadathur, Debra Sue Wilson
May 1990   **Proceedings of the 1990 ACM conference on LISP and functional programming**
Full text available: ⊞ pdf(928.19 KB)   Additional Information: full citation, abstract, references, citings, index terms

A representation for lambda terms is described based on the scheme of de Bruijn for eliminating variable names. The new notation provides for a class of terms that can encode other terms together with substitutions to be performed on them. The notion of an environment is used to realize this "delaying" of substitutions. The precise mechanism that is used is, however, more complex than the usual so as to support the ability to examine subterms embedded under abstractions. A virtu ...

23 A macrotask-level unlimited speculative execution on multiprocessors
Hayato Yamana, Mitsuhisa Sato, Yuetsu Kodama, Hirofumi Sakane, Shuichi Sakai, Yoshinori Yamaguchi
July 1995 **Proceedings of the 9th international conference on Supercomputing**
Full text available: ⊞ pdf(1.16 MB)   Additional Information: full citation, references, citings, index terms

24 Display development system: a successful Ada application
Robin R. Miller, Mary Ann Dodge
March 1986 **Proceedings of the third annual Washington Ada symposium on Ada: Ada use in focus : practical lessons in perspective**
Full text available: ⊞ pdf(559.96 KB)   Additional Information: full citation, references

25 SAFKASI: a security mechanism for language-based systems
Dan S. Wallach, Andrew W. Appel, Edward W. Felten
October 2000 **ACM Transactions on Software Engineering and Methodology (TOSEM)**, Volume 9 Issue 4
Full text available: ⊞ pdf(234.89 KB)   Additional Information: full citation, abstract, references, citings, index terms

In order to run untrusted code in the same process as trusted code, there must be a mechanism to allow dangerous calls to determine if their caller is authorized to exercise the privilege of using the dangerous routine. Java systems have adopted a technique called stack inspection to address this concern. But its original definition, in terms of searching stack frames, had an unclear relationship to the actual achievement of security, overconstrained the implementation of a Java system, lim ...

Keywords: Internet, Java, WWW, access control, applets, security-passing style, stack inspection

26 Session II: wxHaskell: a portable and concise GUI library for haskell

Daan Leijen

September 2004   **Proceedings of the ACM SIGPLAN workshop on Haskell**

Full text available: pdf(179.83 KB)   Additional Information: full citation, abstract, references, citings, index terms

wxHaskell is a graphical user interface (GUI) library for Haskell that is built on wxWidgets: a free industrial strength GUI library for C++ that has been ported to all major platforms, including Windows, Gtk, and MacOS X. In contrast with many other libraries, wxWidgets retains the native look-and-feel of each particular platform. We show how distinctive features of Haskell, like parametric polymorphism, higher-order functions, and first-class computations, can be used to present a concise and ...

Keywords: C++, Haskell, combinator library, graphical user interface, layout, wxWidgets

27 Mobile applications: Bluetooth and WAP push based location-aware mobile advertising system

Lauri Aalto, Nicklas Göthlin, Jani Korhonen, Timo Ojala

June 2004   **Proceedings of the 2nd international conference on Mobile systems, applications, and services**

Full text available: pdf(469.83 KB)   Additional Information: full citation, abstract, references, index terms

Advertising on mobile devices has large potential due to the very personal and intimate nature of the devices and high targeting possibilities. We introduce a novel B-MAD system for delivering permission-based location-aware mobile advertisements to mobile phones using Bluetooth positioning and Wireless Application Protocol (WAP) Push. We present a thorough quantitative evaluation of the system in a laboratory environment and qualitative user evaluation in form of a field trial in the real envir ...

Keywords: Bluetooth positioning, context-aware, location-aware, location-based services, mobile advertising, wireless advertising

28 DCAS-based concurrent deques

Ole Agesen, David L. Detlefs, Christine H. Flood, Alexander T. Garthwaite, Paul A. Martin, Nir N. Shavit, Guy L. Steele

July 2000   **Proceedings of the twelfth annual ACM symposium on Parallel algorithms and architectures**

Full text available: pdf(298.15 KB)   Additional Information: full citation, abstract, references, citings, index terms

The computer industry is currently examining the use of strong synchronization operations such as double compare-and-swap (DCAS) as a means of supporting non-blocking synchronization on tomorrow's multiprocessor machines. However, before such a strong primitive will be incorporated into hardware design, its utility needs to be proven by developing a body of effective non-blocking data structures using DCAS. As part of this effort, we present two new linearizable non-blocking impl ...

29 Optimistic active messages: a mechanism for scheduling communication with computation

Deborah A. Wallach, Wilson C. Hsieh, Kirk L. Johnson, M. Frans Kaashoek, William E. Weihl

August 1995   **ACM SIGPLAN Notices , Proceedings of the fifth ACM SIGPLAN symposium on Principles and practice of parallel programming**, Volume 30 Issue 8

Full text available: pdf(1.14 MB)   Additional Information: full citation, abstract, references, citings, index terms

Low-overhead message passing is critical to the performance of many applications. Active Messages reduce the software overhead for message handling: messages are run as handlers instead of as threads, which avoids the overhead of thread management and the unnecessary data copying of other communication models. Scheduling the execution of Active Messages is typically done by disabling and enabling interrupts, or by polling the network. This primitive scheduling control, combined with the fac ...

30 A coherent distributed file cache with directory write-behind

Timothy Mann, Andrew Birrell, Andy Hisgen, Charles Jerian, Garret Swart

May 1994   **ACM Transactions on Computer Systems (TOCS)**, Volume 12 Issue 2

Full text available: pdf(3.21 MB)   Additional Information: full citation, abstract, references, citings, index terms, review

Extensive caching is a key feature of the Echo distributed file system. Echo client machines maintain coherent caches of file and directory data and properties, with write-behind (delayed write-back) of all cached information. Echo specifies ordering constraints on this write-behind, enabling applications to store and maintain consistent data structures in the file system even when crashes or network faults prevent some writes from being completed. In this paper we describe ...

Keywords: coherence, file caching, write-behind.

31 Context constraints for compositional reachability analysis

Shing Chi Cheung, Jeff Kramer

October 1996   **ACM Transactions on Software Engineering and Methodology (TOSEM)**, Volume 5 Issue 4

Full text available: pdf(635.04 KB)   Additional Information: full citation, abstract, references, citings, index terms, review

Behavior analysis of complex distributed systems has led to the search for enhanced reachability analysis techniques which support modularity and which control the state explosion problem. While modularity has been achieved, state explosion in still a problem. Indeed, this problem may even be exacerbated, as a locally minimized subsystem may contain many states and transitions forbidden by its environment or context. Context constraints, specified as interface processes, are restrictions im ...

Keywords: compositional techniques, concurrency, context constraints, distributed systems, labeled transition systems, reachability analysis, state space reduction, static analysis, validation

32 SABLE: A tool for generating structured, multi-level simulations
D. D. Hill, W. M. vanCleemput
June 1988 **Papers on Twenty-five years of electronic design automation**
Full text available: pdf(809.32 KB)   Additional Information: full citation, references, index terms

33 Letters to the editor: A protection model and its implementation in a dataflow system
Lubomir Bic
September 1982 **Communications of the ACM,** Volume 25 Issue 9
Full text available: pdf(843.40 KB)   Additional Information: full citation, abstract, references, index terms

A protection model is presented for a general purpose computing system based on tags attached as seals and signatures to values exchanged among processes. A tag attached to a value as a seal does not prevent that value from being propagated to any place within the system; rather, it guarantees that the value and any information derived from it cannot leave the system unless a matching tag is presented. A tag attached to a value as a signature is used by a p ...

Keywords: dataflow, interprocess communication, proprietory services, protection, selective confinement

34 Sequential thematic organization of publications: how to achieve coherence in proposals and reports
J. R. Tracey, D. E. Rugh, W. S. Starkey
August 1999 **ACM SIGDOC Asterisk Journal of Computer Documentation,** Volume 23 Issue 3
Full text available: pdf(3.80 MB)   Additional Information: full citation, index terms

35 BrouHaHa- A portable Smalltalk interpreter
Eliot Miranda
December 1987 **ACM SIGPLAN Notices , Conference proceedings on Object-oriented programming systems, languages and applications,** Volume 22 Issue 12
Full text available: pdf(1.10 MB)   Additional Information: full citation, abstract, references, citings, index terms

BrouHaHa is a portable implementation of the Smalltalk-80 virtual machine interpreter. It is a more efficient redesign of the standard Smalltalk specification, and is tailored to suit conventional 32 bit microprocessors. This paper presents the major design changes and optimization techniques used in the BrouHaHa interpreter. The interpreter runs at 30% of the speed of the Dorado on a Sun 3/160 workstation. The implementation is portable because it is written in C.

36 Replicated distributed programs
Eric C. Cooper
December 1985 **ACM SIGOPS Operating Systems Review , Proceedings of the tenth ACM symposium on Operating systems principles,** Volume 19 Issue 5
Full text available: pdf(1.12 MB)   Additional Information: full citation, references, citings, index terms

37. Anytime, anywhere: modal logics for mobile ambients
Luca Cardelli, Andrew D. Gordon
January 2000 **Proceedings of the 27th ACM SIGPLAN-SIGACT symposium on Principles of programming languages**
Full text available: pdf(1.56 MB)   Additional Information: full citation, abstract, references, citings, index terms

The Ambient Calculus is a process calculus where processes may reside within a hierarchy of locations and modify it. The purpose of the calculus is to study mobility, which is seen as the change of spatial configurations over time. In order to describe properties of mobile computations we devise a modal logic that can talk about space as well as time, and that has the Ambient Calculus as a model.

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41 Single-packet IP traceback
Alex C. Snoeren, Craig Partridge, Luis A. Sanchez, Christine E. Jones, Fabrice Tchakountio, Beverly
Schwartz, Stephen T. Kent, W. Timothy Strayer
December 2002 **IEEE/ACM Transactions on Networking (TON)**, Volume 10 Issue 6
Full text available: 📄 pdf(528.41 KB)   Additional Information: full citation, abstract, references, citings, index terms

> The design of the IP protocol makes it difficult to reliably identify the originator of an IP packet. Even in
> the absence of any deliberate attempt to disguise a packet's origin, widespread packet forwarding
> techniques such as NAT and encapsulation may obscure the packet's true source. Techniques have been
> developed to determine the source of large packet flows, but, to date, no system has been presented to
> track individual packets in an efficient, scalable fashion. We present a hash-based techn ...
>
> **Keywords**: IP traceback, computer network management, computer network security, denial of service
> (DoS), network fault diagnosis, wide-area networks (WANs)

42 Revised5 report on the algorithmic language scheme
N. I. Adams, D. H. Bartley, G. Brooks, R. K. Dybvig, D. P. Friedman, R. Halstead, C. Hanson, C. T. Haynes,
E. Kohlbecker, D. Oxley, K. M. Pitman, G. J. Rozas, G. L. Steele, G. J. Sussman, M. Wand, H. Abelson
September 1998 **ACM SIGPLAN Notices**, Volume 33 Issue 9
Full text available: 📄 pdf(4.44 MB)   Additional Information: full citation, citings, index terms

43 Draft Proposed: American National Standard—Graphical Kernel System
Technical Committee X3H3 - Computer Graphics
February 1984 **ACM SIGGRAPH Computer Graphics**, Volume 18 Issue SI
Full text available: 📄 pdf(16.07 MB)   Additional Information: full citation

44 Time critical rendering: Conservative visibility preprocessing for walkthroughs of complex urban
scenes
JunHyeok Heo, Jaeho Kim, KwangYun Wohn
October 2000 **Proceedings of the ACM symposium on Virtual reality software and technology**
Full text available: 📄 pdf(1.51 MB)   Additional Information: full citation, abstract, references, citings

> Visibility preprocessing is a useful method to reduce the complexity of scenes to be processed in
> real-time, and so enhances the overall rendering performance for interactive visualization of virtual
> environments. In this paper, we propose an efficient visibility preprocessing method. The proposed
> method is able to handle more general environments, like urban environments, and remove invisible
> polygons jointly blocked by multiple occluders. The proposed method requires $O(nm)$ time and O ...
>
> **Keywords**: Conservative Visibility, Occlusion Culling, Visibility Determination, Visibility Preprocessing

45 A distributed routing algorithm for mobile wireless networks
M. Scott Corson, Anthony Ephremides
February 1995 **Wireless Networks**, Volume 1 Issue 1
Full text available: 📄 pdf(1.92 MB)   Additional Information: full citation, abstract, references, citings, index terms

> We present a loop-free, distributed routing protocol for mobile packet radio networks. The protocol is
> intended for use in networks where the rate of topological change is not so fast as to make "flooding" the
> only possible routing method, but not so slow as to make one of the existing protocols for a nearly-static
> topology applicable. The routing algorithm adapts asynchronously in a distributed fashion to arbitrary

38 Efficient algorithms for performing packet broadcasts in a mesh network
Eytan Modiano, Anthony Ephremides
August 1996 **IEEE/ACM Transactions on Networking (TON)**, Volume 4 Issue 4
Full text available: pdf(1.14 MB)   Additional Information: full citation, references, index terms

39 Formal specification and design of a message router
Christian Creveuil, Gruia-Catalin Roman
October 1994 **ACM Transactions on Software Engineering and Methodology (TOSEM)**, Volume 3 Issue 4
Full text available: pdf(2.49 MB)   Additional Information: full citation, abstract, references, citings, index terms, review

Formal derivation refers to a family of design techniques that entail the development of programs which are guaranteed to be correct by construction. Only limited industrial use of such techniques (e.g., UNITY-style specification refinement) has been reported in the literature, and there is a great need for methodological developments aimed at facilitating their application to complex problems. This article examines the formal specification and design of a message router in an attempt to id ...

Keywords: UNITY, formal methods, program derivation, specification refinement

40 Parallelizing nonnumerical code with selective scheduling and software pipelining
Soo-Mook Moon, Kemal Ebcioğlu
November 1997 **ACM Transactions on Programming Languages and Systems (TOPLAS)**, Volume 19 Issue 6
Full text available: pdf(543.93 KB)   Additional Information: full citation, abstract, references, citings, index terms

Instruction-level parallelism (ILP) in nonnumerical code is regarded as scarce and hard to exploit due to its irregularity. In this article, we introduce a new code-scheduling technique for irregular ILP called "selective scheduling" which can be used as a component for superscalar and VLIW compilers. Selective scheduling can compute a wide set of independent operations across all execution paths based on renaming and forward-substitution and can compute availab ...

Keywords: VLIW, global instruction scheduling, instruction-level parallelism, software pipelining, speculative code motion, superscalar

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changes in topology in the absence of global topological knowle ...

46 Typed representation of objects by functions
J. Steensgaard-Madsen
January 1989 **ACM Transactions on Programming Languages and Systems (TOPLAS)**, Volume 11
     Issue 1
Full text available: pdf(1.55 MB)   Additional Information: full citation, abstract, references, index terms

> A systematic representation of objects grouped into types by constructions similar to the composition of sets in mathematics is proposed. The representation is by lambda expressions, which supports the representation of objects from function spaces. The representation is related to a rather conventional language of type descriptions in a way that is believed to be new. Ordinary control-expressions (i.e.,case- and let-expressions) are derived from the proposed representation.

47 Transaction papers: Formal specification and verification of safety and performance of TCP selective acknowledgment
Mark A. Smith, K. K. Ramakrishnan
April 2002   **IEEE/ACM Transactions on Networking (TON)**, Volume 10 Issue 2
Full text available: pdf(505.58 KB)   Additional Information: full citation, abstract, references, index terms

> We present a formal specification of the selective acknowledgment (SACK) mechanism that is being proposed as a new standard option for TCP. The formal specification allows one to reason about the SACK protocol; thus, we are able to formally prove that the SACK mechanism does not violate the safety properties (reliable, at most once, and in order message delivery) of the acknowledgment (ACK) mechanism that is currently used with TCP. The new mechanism is being proposed to improve the performance ...

> **Keywords**: I/O automata, TCP SACK, TCP performance, congestion control, formal verification

48 Revised report on the algorithmic language scheme
J Rees, W Clinger
December 1986 **ACM SIGPLAN Notices**, Volume 21 Issue 12
Full text available: pdf(4.06 MB)   Additional Information: full citation, citings, index terms

49 A practical soft type system for Scheme
Andrew K. Wright, Robert Cartwright
July 1994   **ACM SIGPLAN Lisp Pointers , Proceedings of the 1994 ACM conference on LISP and functional programming**, Volume VII Issue 3
Full text available: pdf(1.36 MB)   Additional Information: full citation, abstract, references, citings, index terms

> Soft typing is a generalization of static type checking that accommodates both dynamic typing and static typing in one framework. A soft type checker infers types for identifiers and inserts explicit run-time checks to transform untypable programs into typable form. Soft Scheme is a practical soft type system for R4RS Scheme. The type checker uses a representation for types that is expressive, easy to interpret, and supports efficient type inference. Soft S ...

50 Adaptive packet routing for bursty adversarial traffic
William Aiello, Eyal Kushilevitz, Rafail Ostrovsky, Adi Rosén
May 1998 **Proceedings of the thirtieth annual ACM symposium on Theory of computing**
Full text available: pdf(1.46 MB)   Additional Information: full citation, references, citings, index terms

51 Efficient filtering of XML documents with XPath expressions
C.-Y. Chan, P. Felber, M. Garofalakis, R. Rastogi
December 2002 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 11
     Issue 4
Full text available: pdf(383.34 KB)   Additional Information: full citation, abstract, index terms

> The publish/subscribe paradigm is a popular model for allowing publishers (i.e., data generators) to selectively disseminate data to a large number of widely dispersed subscribers (i.e., data consumers) who have registered their interest in specific information items. Early publish/subscribe systems have typically relied on simple subscription mechanisms, such as keyword or "bag of words" matching, or simple comparison predicates on attribute values. The emergence of XML as a standar ...

> **Keywords**: Data dissemination, Document filtering, Index structure, XML, XPath

52 Modeling deflection networks: design and specification
Nobuyuki Nezu, Huizhu Lu
February 1999 **Proceedings of the 1999 ACM symposium on Applied computing**
Full text available: pdf(933.04 KB)   Additional Information: full citation, references, index terms

   Keywords: deflection, network, routing, specification

53 Lock-free reference counting
David L. Detlefs, Paul A. Martin, Mark Moir, Guy L. Steele
August 2001 **Proceedings of the twentieth annual ACM symposium on Principles of distributed computing**
Full text available: pdf(802.52 KB)   Additional Information: full citation, abstract, references, citings, index terms

   Assuming the existence of garbage collection makes it easier to design implementations of concurrent data structures. However, this assumption limits their applicability. We present a methodology that, for a significant class of data structures, allows designers to first tackle the easier problem of designing a garbage-collection-dependent implementation, and then apply our methodology to achieve a garbage-collection-independent one. Our methodology is based on the well-known reference counti ...

54 Detection: On scalable attack detection in the network
Ramana Rao Kompella, Sumeet Singh, George Varghese
October 2004 **Proceedings of the 4th ACM SIGCOMM conference on Internet measurement**
Full text available: pdf(405.42 KB)   Additional Information: full citation, abstract, references, index terms

   Current intrusion detection and prevention systems seek to detect a wide class of network intrusions (e.g., DoS attacks, worms, port scans)at network vantage points. Unfortunately, all the IDS systems we know of keep per-connection or per-flow state. Thus it is hardly surprising that IDS systems (other than signature detection mechanisms) have not scaled to multi-gigabit speeds. By contrast, note that both router lookups and fair queuing have scaled to high speeds using <i>aggregation< ...

   Keywords: denial of service, scalability, security

55 Specifying Concurrent Program Modules
Leslie Lamport
April 1983 **ACM Transactions on Programming Languages and Systems (TOPLAS)**, Volume 5 Issue 2
Full text available: pdf(2.03 MB)   Additional Information: full citation, references, citings, index terms

56 A SAT-based network access scheme for fairness in high speed networks
Bhargav R. Bellur, Galen H. Sasaki
June 1997 **IEEE/ACM Transactions on Networking (TON)**, Volume 5 Issue 3
Full text available: pdf(458.24 KB)   Additional Information: full citation, references, index terms

   Keywords: MetaRing, access delay, distributed algorithms, fairness, high speed network, network access mechanisms, virtual rings

57 A pseudo-machine for packet monitoring and statistics
R. T. Braden
August 1988 **ACM SIGCOMM Computer Communication Review , Symposium proceedings on Communications architectures and protocols**, Volume 18 Issue 4
Full text available: pdf(962.06 KB)   Additional Information: full citation, abstract, references, citings, index terms

   This paper concerns the design of a flexible and efficient packet monitoring program for analyzing traffic patterns and gathering statistics on a packet network. This monitor operates in real time, using an analyzer which is an interpretive pseudo-machine driving object-oriented data collection programs. The pseudo-program for the interpreter is "compiled" from configuration commands written in a monitoring control language.

58 Status report of the graphic standards planning committee
Computer Graphics staff
August 1979 **ACM SIGGRAPH Computer Graphics**, Volume 13 Issue 3

Full text available: pdf(15.01 MB)   Additional Information: full citation, references, citings

59 Extending Java for high-level Web service construction

Aske Simon Christensen, Anders Møller, Michael I. Schwartzbach

November 2003   **ACM Transactions on Programming Languages and Systems (TOPLAS)**, Volume 25
Issue 6

Full text available: pdf(947.02 KB)   Additional Information: full citation, abstract, references, citings, index terms

We incorporate innovations from the <bigwig> project into the Java language to provide high-level
features for Web service programming. The resulting language, JWIG, contains an advanced session
model and a flexible mechanism for dynamic construction of XML documents, in particular XHTML. To
support program development we provide a suite of program analyses that at compile time verify for a
given program that no runtime errors can occur while building documents or receiving form input, and ...

Keywords: Interactive Web services, XML, data-flow analysis

60 An architecture for secure wide-area service discovery

Todd D. Hodes, Steven E. Czerwinski, Ben Y. Zhao, Anthony D. Joseph, Randy H. Katz

March 2002   **Wireless Networks**, Volume 8 Issue 2/3

Full text available: pdf(365.68 KB)   Additional Information: full citation, abstract, references, index terms

The widespread deployment of inexpensive communications technology, computational resources in the
networking infrastructure, and network-enabled end devices poses an interesting problem for end users:
how to locate a particular network service or device out of hundreds of thousands of accessible services
and devices. This paper presents the architecture and implementation of a secure wide-area Service
Discovery Service (SDS). Service providers use the SDS to advertise descriptions of available ...

Keywords: location services, name lookup, network protocols, service discovery

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1   TCP extensions for space communications

Robert C. Durst, Gregory J. Miller, Eric J. Travis

October 1997 **Wireless Networks,** Volume 3 Issue 5 ·

Full text available: 🔲 pdf(375.24 KB)   Additional Information: full citation, abstract, references, citings, index terms

The space communication environment and mobile and wireless communication environments show many similarities when observed from the perspective of a transport protocol. Both types of environments exhibit loss caused by data corruption and link outage, in addition to congestion-related loss. The constraints imposed by the two environments are also similar—power, weight, and physical volume of equipment are scarce resources. Finally, it is not uncommon for communication channel data ra ...

2   TCP extensions for space communications

Robert C. Durst, Gregory J. Miller, Eric J. Travis

November 1996 **Proceedings of the 2nd annual international conference on Mobile computing and networking**

Full text available: 🔲 pdf(1.58 MB)   Additional Information: full citation, references, citings, index terms

3   Special issue on wireless extensions to the internet: A cooperative approach to user mobility

Robin Kravets, Casey Carter, Luiz Magalhães

October 2001 **ACM SIGCOMM Computer Communication Review,** Volume 31 Issue 5

Full text available: 🔲 pdf(1.34 MB)   Additional Information: full citation, abstract, references

We propose a networking model that treats a user's set of personal devices as a MObile grouPEd Device, a MOPED, which appears as a single entity to the rest of the Internet. All communication for a user is directed to this point of presence. As the user moves through different environments, the devices cooperate to provide the user with access to all available communication resources. We present the basic networking functionality necessary to enable the operation of MOPEDs and their integrati ...

4   Performance: Clarifying the fundamentals of HTTP

Jeffery C. Mogul

May 2002 **Proceedings of the eleventh international conference on World Wide Web**

Full text available: 🔲 pdf(157.39 KB)   Additional Information: full citation, abstract, references, citings, index terms

The simplicity of HTTP was a major factor in the success of the Web. However, as both the protocol and its uses have evolved, HTTP has grown complex. This complexity results in numerous problems, including confused implementors, interoperability failures, difficulty in extending the protocol, and a long specification without much documented rationale.Many of the problems with HTTP can be traced to unfortunate choices about fundamental definitions and models. This paper analyzes the current (HTTP ...

Keywords: HTTP, protocol design

5   Low-loss TCP/IP header compression for wireless networks

Mikael Degermark, Mathias Engan, Björn Nordgren, Stephen Pink

October 1997 **Wireless Networks,** Volume 3 Issue 5

Full text available: 🔲 pdf(534.08 KB)   Additional Information: full citation, abstract, references, index terms

Wireless is becoming a popular way to connect mobile computers to the Internet and other networks. The bandwidth of wireless links will probably always be limited due to properties of the physical medium and regulatory limits on the use of frequencies for radio communication. Therefore, it is necessary for network protocols to utilize the available bandwidth efficiently. Headers of IP packets are growing and the bandwidth required for transmitting headers is increasing. With the coming of I ...

6 Principled design of the modern Web architecture
Roy T. Fielding, Richard N. Taylor
May 2002   **ACM Transactions on Internet Technology (TOIT)**, Volume 2 Issue 2
Full text available: pdf(335.47 KB)   Additional Information: full citation, abstract, references, citings, index terms

The World Wide Web has succeeded in large part because its software architecture has been designed to meet the needs of an Internet-scale distributed hypermedia application. The modern Web architecture emphasizes scalability of component interactions, generality of interfaces, independent deployment of components, and intermediary components to reduce interaction latency, enforce security, and encapsulate legacy systems. In this article we introduce the Representational State Transfer (REST) arc ...

Keywords: Network-based applications, REST, World Wide Web

7 Technical papers: 4+4: an architecture for evolving the Internet address space back toward transparency
Zoltán Turányi, András Valkó, Andrew T. Campbell
October 2003 **ACM SIGCOMM Computer Communication Review**, Volume 33 Issue 5
Full text available: pdf(521.88 KB)   Additional Information: full citation, abstract, references

We propose 4+4, a simple address extension architecture for Internet that provides an evolutionary approach to extending the existing IPv4 address space in comparison to more complex and disruptive approaches best exemplified by IPv6 deployment. The 4+4 architecture leverages the existence of Network Address Translators (NATs) and private address realms, and importantly, enables the return to end-to-end address transparency as the incremental deployment of 4+4 progresses. During the transition t ...

8 Write barrier removal by static analysis
Karen Zee, Martin Rinard
November 2002 **ACM SIGPLAN Notices , Proceedings of the 17th ACM SIGPLAN conference on Object-oriented programming, systems, languages, and applications**, Volume 37 Issue 11
Full text available: pdf(396.83 KB)   Additional Information: full citation, abstract, references, citings, index terms

We present a new analysis for removing unnecessary write barriers in programs that use generational garbage collection. To our knowledge, this is the first static program analysis for this purpose. Our algorithm uses a pointer analysis to locate assignments that always create a reference from a younger object to an older object, then transforms the program to remove the write barriers normally associated with such assignments. We have implemented two transformations that reorder object allocatio ...

Keywords: generational garbage collection, pointer analysis, program analysis, write barriers

9 The AED free storage package
Douglas T. Ross
August 1967 **Communications of the ACM**, Volume 10 Issue 8
Full text available: pdf(1.55 MB)   Additional Information: full citation, abstract, references, citings, index terms

The most fundamental underlying problem in sophisticated software systems involving elaborate, changing data structure is dynamic storage allocation for flexible problem modeling. The Free Storage Package of the AED-1 Compiler System allows blocks of available storage to be obtained and returned for reuse. The total available space is partitioned into a hierarchy of free storage zones, each of which has its own characteristics. Blocks may be of any size, and special provisions allow efficie ...

10 Low-loss TCP/IP header compression for wireless networks
Mikael Degermark, Mathias Engan, Björn Nordgren, Stephen Pink
November 1996 **Proceedings of the 2nd annual international conference on Mobile computing and networking**
Full text available: pdf(1.51 MB)   Additional Information: full citation, references, citings, index terms

11 IP next generation overview
Robert M. Hinden
June 1996 **Communications of the ACM**, Volume 39 Issue 6
Full text available: pdf(610.92 KB)   Additional Information: full citation, references, index terms, review

12 A unified header compression framework for low-bandwidth links

Jeremy Lilley, Jason Yang, Hari Balakrishnan, Srinivasan Seshan

August 2000 **Proceedings of the 6th annual international conference on Mobile computing and networking**

Full text available: pdf(1.35 MB)   Additional Information: full citation, abstract, references, citings, index terms

Compressing protocol headers has traditionally been an attractive way of conserving bandwidth over low-speed links, including those in wireless systems. However, despite the growth in recent years in the number of end-to-end protocols beyond TCP/IP, header compression deployment for those protocols has not kept pace. This is in large part due to complexities in implementation, which often requires a detailed knowledge of kernel internals, and a lack of a common way of pursuing the general p ...

13 Architecture and performance of server-directed transcoding

Björn Knutsson, Honghui Lu, Jeffrey Mogul, Bryan Hopkins

November 2003 **ACM Transactions on Internet Technology (TOIT)**, Volume 3 Issue 4

Full text available: pdf(927.92 KB)   Additional Information: full citation, abstract, references, citings, index terms, review

Proxy-based transcoding adapts Web content to be a better match for client capabilities (such as screen size and color depth) and last-hop bandwidths. Traditional transcoding breaks the end-to-end model of the Web, because the proxy does not know the semantics of the content. *Server-directed transcoding* preserves end-to-end semantics while supporting aggressive content transformations.We show how server-directed transcoding can be integrated into the HTTP protocol and into the implementat ...

Keywords: HTTP, proxy, transcode, web

14 Separating access control policy, enforcement, and functionality in extensible systems

Robert Grimm, Brian N. Bershad

February 2001 **ACM Transactions on Computer Systems (TOCS)**, Volume 19 Issue 1

Full text available: pdf(164.03 KB)   Additional Information: full citation, abstract, references, citings, index terms, review

Extensible systems, such as Java or the SPIN extensible operating system, allow for units of code, or extensions, to be added to a running system in almost arbitrary fashion. Extensions closely interact through low-latency but type-safe interfaces to form a tightly integrated system. As extensions can come from arbitrary sources, not all of whom can be trusted to conform to an organization's security policy, such structuring raises the question of how security constraints are enforced in an ...

Keywords: Java, SPIN, access check, auditing, extensible systems, policy-neutral enforcement, protection domain, protection domain transfer, security policy

15 Storage protocol designs: A study of iSCSI extensions for RDMA (iSER)

Mallikarjun Chadalapaka, Hemal Shah, Uri Elzur, Patricia Thaler, Michael Ko

August 2003 **Proceedings of the ACM SIGCOMM workshop on Network-I/O convergence: experience, lessons, implications**

Full text available: pdf(281.32 KB)   Additional Information: full citation, abstract, references, index terms

The iSCSI protocol is the IETF standard that maps the SCSI family of application protocols onto TCP/IP enabling convergence of storage traffic on to standard TCP/IP fabrics. The ability to efficiently transfer and place the data on TCP/IP networks is crucial for this convergence of the storage traffic. The iWARP protocol suite provides Remote Direct Memory Access (RDMA) semantics over TCP/IP networks and enables efficient memory-to-memory data transfers over an IP fabric. This paper studies the ...

Keywords: DA, DDP, DI, Datamover, MPA, RDMA, RDMAP, SCSI, Verbs, iSCSI, iSER, iWARP

16 Integrating segmentation and paging protection for safe, efficient and transparent software extensions

Tzi-cker Chiueh, Ganesh Venkitachalam, Prashant Pradhan

December 1999 **ACM SIGOPS Operating Systems Review , Proceedings of the seventeenth ACM symposium on Operating systems principles**, Volume 33 Issue 5

Full text available: pdf(1.54 MB)   Additional Information: full citation, abstract, references, citings, index terms

The trend towards extensible software architectures and component-based software development demands safe, efficient, and easy-to-use extension mechanisms to enforce protection boundaries among software modules residing in the same address space. This paper describes the design, implementation, and evaluation of a novel intra-address space protection mechanism called *Palladium,* which exploits the segmentation and paging hardware in the Intel X86 architecture and efficiently supports safe ...

17 The intractability of bounded protocols for on-line sequence transmission over non-FIFO channels

Yishay Mansour, Baruch Schieber

October 1992 **Journal of the ACM (JACM)**, Volume 39 Issue 4

Full text available: pdf(1.33 MB)   Additional Information: full citation, abstract, references, citings, index terms

The efficiency of data-link protocols for reliable transmission of a sequence of messages over non-FIFO physical channels is discussed. The transmission has to be on-line; i.e., a message cannot be accessed by the transmitting station before the preceding message has been received. Three resources are considered: The number of packets that have to be sent, the number of headers, and the amount of space required by the protocol. Three lower bounds are proved. First, the space required by any ...

Keywords: data link, lower bound, non-FIFO channels, sequence transmission

18 Quality of service: Towards context-aware adaptable web services

Markus Keidl, Alfons Kemper

May 2004   **Proceedings of the 13th international World Wide Web conference on Alternate track papers & posters**

Full text available: pdf(142.73 KB)   Additional Information: full citation, abstract, references, index terms

In this paper, we present a context framework that facilitates the development and deployment of context-aware adaptable Web services. Web services are provided with context information about clients that may be utilized to provide a personalized behavior. Context is extensible with new types of information at any time without any changes to the underlying infrastructure. Context processing is done by Web services, context plugins, or context services. Context plugins and context services pre- a ...

Keywords: automatic context processing, context, extensibility, extensible framework, information services, service platform, web services

19 Fast and flexible application-level networking on exokernel systems

Gregory R. Ganger, Dawson R. Engler, M. Frans Kaashoek, Héctor M. Briceño, Russell Hunt, Thomas Pinckney

February 2002 **ACM Transactions on Computer Systems (TOCS),** Volume 20 Issue 1

Full text available: pdf(500.67 KB)   Additional Information: full citation, abstract, references, citings, index terms

Application-level networking is a promising software organization for improving performance and functionality for important network services. The Xok/ExOS exokernel system includes application-level support for standard network services, while at the same time allowing application writers to specialize networking services. This paper describes how Xok/ExOS's kernel mechanisms and library operating system organization achieve this flexibility, and retrospectively shares our experiences an ...

Keywords: Extensible systems, OS structure, fast servers, network services

20 The intractability of bounded protocols for non-FIFO channels

Y. Mansour, B. Schieber

June 1989 **Proceedings of the eighth annual ACM Symposium on Principles of distributed computing**

Full text available: pdf(1.31 MB)   Additional Information: full citation, references, citings, index terms

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21 A readable TCP in the Prolac protocol language   ■
  Eddie Kohler, M. Frans Kaashoek, David R. Montgomery
  August 1999 **ACM SIGCOMM Computer Communication Review , Proceedings of the conference on
        Applications, technologies, architectures, and protocols for computer
        communication,** Volume 29 Issue 4
  Full text available: 📄 pdf(1.23 MB)   Additional Information: full citation, abstract, references, citings, index terms

> Prolac is a new statically-typed, object-oriented language for network protocol implementation. It is
> designed for readability, extensibility, and real-world implementation; most previous protocol languages,
> in contrast, have been based on hard-to-implement theoretical models and have focused on verification.
> We present a working Prolac TCP implementation directly derived from 4.4BSD. Our implementation is
> modular---protocol processing is logically divided into minimally-interacting pieces; read ...

22 Content-triggered trust negotiation   ■
  Adam Hess, Jason Holt, Jared Jacobson, Kent E. Seamons
  August 2004 **ACM Transactions on Information and System Security (TISSEC),** Volume 7 Issue 3
  Full text available: 📄 pdf(815.36 KB)   Additional Information: full citation, abstract, references, index terms

> The focus of access control in client/server environments is on protecting sensitive server resources by
> determining whether or not a client is authorized to access those resources. The set of resources is
> usually static, and an access control policy associated with each resource specifies who is authorized to
> access the resource. In this article, we turn the traditional client/server access control model on its head
> and address how to protect the sensitive content that clients disclose to and r ...

> **Keywords:** Trust negotiation, access control, authentication, credentials

23 The click modular router   ■
  Eddie Kohler, Robert Morris, Benjie Chen, John Jannotti, M. Frans Kaashoek
  August 2000 **ACM Transactions on Computer Systems (TOCS),** Volume 18 Issue 3
  Full text available: 📄 pdf(376.31 KB)   Additional Information: full citation, abstract, references, citings, index terms

> Clicks is a new software architecture for building flexible and configurable routers. A Click router is
> assembled from packet processing modules called elements. Individual elements implement simple router
> functions like packet classification, queuing, scheduling, and interfacing with network devices. A router
> configurable is a directed graph with elements at the vertices; packets flow along the edges of the graph.
> Several features make individual elements more powerful and ...

> **Keywords:** component systems, routers, software router performance

24 Potential benefits of delta encoding and data compression for HTTP   ■
  Jeffrey C. Mogul, Fred Douglis, Anja Feldmann, Balachander Krishnamurthy
  October 1997 **ACM SIGCOMM Computer Communication Review , Proceedings of the ACM SIGCOMM
        '97 conference on Applications, technologies, architectures, and protocols for
        computer communication,** Volume 27 Issue 4
  Full text available: 📄 pdf(2.00 MB)   Additional Information: full citation, abstract, references, citings, index terms

> Caching in the World Wide Web currently follows a naive model, which assumes that resources are
> referenced many times between changes. The model also provides no way to update a cache entry if a
> resource does change, except by transferring the resource's entire new value. Several previous papers
> have proposed updating cache entries by transferring only the differences, or "delta," between the cached
> entry and the current value.In this paper, we make use of dynamic traces of the full contents of ...

25 Bidirectional object layout for separate compilation

Andrew C. Myers

October 1995 **ACM SIGPLAN Notices , Proceedings of the tenth annual conference on Object-oriented programming systems, languages, and applications ,** Volume 30 Issue 10

Full text available: pdf(1.87 MB) Additional Information: full citation, abstract, references, citings, index terms

Existing schemes for object layout and dispatch in the presence of multiple inheritance and separate compilation waste space and are slower than systems with single inheritance. This paper describes the *bidirectional object layout*, a new scheme for object layout that produces smaller objects and faster method invocations than existing schemes by automatically optimizing particular uses of multiple inheritance. The bidirectional object layout is used for the programming language Theta, and ...

26 Routing: Implicit source routes for on-demand ad hoc network routing

Yih-Chun Hu, David B. Johnson

October 2001 **Proceedings of the 2nd ACM international symposium on Mobile ad hoc networking & computing**

Full text available: pdf(175.52 KB) Additional Information: full citation, abstract, references, citings, index terms

In an ad hoc network, the use of *source routing* has many advanctages, including simplicity, correctness, and flexibility. For example, all routing decisions for a packet are made by the sender of the packet, avoiding the need for up-to-date routing information at intermediate nodes and allowing the routes used to be trivially guaranteed loop-free. It is also possible for the sender to use different routes for different packets, without requiring coordination or explicit support by the imt ...

27 How to write system-specific, static checkers in metal

Benjamin Chelf, Dawson Engler, Seth Hallem

November 2002 **ACM SIGSOFT Software Engineering Notes , Proceedings of the 2002 ACM SIGPLAN-SIGSOFT workshop on Program analysis for software tools and engineering,** Volume 28 Issue 1

Full text available: pdf(190.85 KB) Additional Information: full citation, references, index terms

28 Developments in simulation and instrumentation: Topology discovery for public IPv6 networks

Daniel G. Waddington, Fangzhe Chang, Ramesh Viswanathan, Bin Yao

July 2003 **ACM SIGCOMM Computer Communication Review,** Volume 33 Issue 3

Full text available: pdf(182.34 KB) Additional Information: full citation, abstract, references, index terms

In just three decades the Internet has grown from a small experimental research network into a complex network of routers, switches, and hosts. Understanding the topology of such large scale networks is essential to the procurement of good architectural design decisions, particularly with respect to address allocation and distribution schemes.A number of techniques for IPv4 network topology already exist. Of these ICMP-based probing has shown to be most useful in determining router-level topolog ...

Keywords: IPv6, IPv6 network topology discovery, network measurement, network probing, topology inference

29 Language-based security: SELF: a transparent security extension for ELF binaries

Daniel C. DuVarney, V. N. Venkatakrishnan, Sandeep Bhatkar

August 2003 **Proceedings of the 2003 workshop on New security paradigms**

Full text available: pdf(1.05 MB) Additional Information: full citation, abstract, references

The ability to analyze and modify binaries is often very useful from a security viewpoint. Security operations one would like to perform on binaries include the ability to extract models of program behavior and insert inline reference monitors. Unfortunately, the existing manner in which binary code is packaged prevents even the simplest of analyses, such as distinguishing code from data, from succeeding 100 percent of the time. In this paper, we propose SELF, a security-enhanced ELF (Executable ...

30 A client-based transaction system to maintain data integrity

William H. Paxton

December 1979 **Proceedings of the seventh ACM symposium on Operating systems principles**

Full text available: pdf(564.24 KB) Additional Information: full citation, abstract, references, citings, index terms

This paper describes a technique for maintaining data integrity that can be implemented using capabilities typically found in existing file systems. Integrity is a property of a total collection of data. It cannot be maintained simply by using reliable primitives for reading and writing single units—the relations between the units are important also. The technique suggested in this paper ensures that data integrity will not be lost as a result of simultaneous access or as a result of ...

31 Global value numbers and redundant computations
B. K. Rosen, M. N. Wegman, F. K. Zadeck
January 1988 **Proceedings of the 15th ACM SIGPLAN-SIGACT symposium on Principles of programming languages**
Full text available: pdf(1.96 MB)   Additional Information: full citation, references, citings, index terms

32 Services: A mobility-aware broadcasting infrastructure for a wireless internet with hotspots
Cristian Hesselman, Henk Eertink, Ing Widya, Erik Huizer
September 2003 **Proceedings of the 1st ACM international workshop on Wireless mobile applications and services on WLAN hotspots**
Full text available: pdf(292.13 KB)   Additional Information: full citation, abstract, references, index terms

In this paper, we consider the problem of adaptively delivering live multimedia broadcasts (e.g., for applications such as TV, radio, or e-cinema) to a potentially large number of mobile hosts that roam about in a wireless internet with hotspots. We take a user-oriented approach based on an application-level delivery infrastructure consisting of and managed by (value-added) service providers. The service providers are mobility-aware and offer broadcasts in configurations that are optimized for w
...

Keywords: hotspots/overlays, mobility, multimedia broadcasting, negotiation

33 NLH/E: a natural language help system
Walter F. Tichy, Rolf L. Adams, Lars Holter
May 1989 **Proceedings of the 11th international conference on Software engineering**
Full text available: pdf(1.15 MB)   Additional Information: full citation, references, citings, index terms

Keywords: artificial intelligence, caseframe parsing, help systems, natural language processing, software engineering, software reuse

34 Mobility support in IPv6
Charles E. Perkins, David B. Johnson
November 1996 **Proceedings of the 2nd annual international conference on Mobile computing and networking**
Full text available: pdf(1.37 MB)   Additional Information: full citation, references, citings, index terms

35 Session 4: Web service applications: Towards securing XML Web services
Ernesto Damiani, Sabrina De Capitani di Vimercati, Pierangela Samarati
November 2002 **Proceedings of the 2002 ACM workshop on XML security**
Full text available: pdf(198.65 KB)   Additional Information: full citation, abstract, references, citings, index terms

Security is currently one of the main concerns about XML Web services. Several initiatives are currently ongoing aimed at achieving a standardized way for supporting integrity, confidentiality, and access control for XML Web services. This paper looks into these approaches and gives some hints for future research.

Keywords: SOAP, Web services, access control

36 HTTP Cookies: Standards, privacy, and politics
David M. Kristol
November 2001 **ACM Transactions on Internet Technology (TOIT),** Volume 1 Issue 2
Full text available: pdf(390.38 KB)   Additional Information: full citation, abstract, references, citings, index terms

How did we get from a world where cookies were something you ate and where "nontechies" were unaware of "Netscape cookies" to a world where cookies are a hot-button privacy issue for many computer users? This article describes how HTTP "cookies" work and how Netscape's original specification evolved into an IETF Proposed Standard. I also offer a personal perspective on how what began as a straightforward technical specification turned into a political flashpoint when it tried to address nontechn
...

Keywords: Cookies, HTTP, World Wide Web, privacy, state management

37. Ubiquitous WWW: Profiles for the situated web

Lalitha Suryanarayana, Johan Hjelm

May 2002   **Proceedings of the eleventh international conference on World Wide Web**

Full text available: pdf(263.89 KB)   Additional Information: full citation, abstract, references, index terms

The World Wide Web is evolving into a medium that will soon make it possible for conceiving and implementing situation-aware services. A situation-aware or situated web application is one that renders the user with an experience (content, interaction and presentation) that is so tailored to his/her current situation. This requires the facts and opinions regarding the context to be communicated to the server by means of a profile, which is then applied against the description of the application o ...

Keywords: CC/PP, XML, profiles, situated-aware applications, vocabulary, web architecture

38 Web and e-business application: User adaptive content delivery mechanism on the world wide web

Tadashi Nakano, Kaname Harumoto, Shinji Shimojo, Shojiro Nishio

March 2002   **Proceedings of the 2002 ACM symposium on Applied computing**

Full text available: pdf(1.00 MB)   Additional Information: full citation, abstract, references, index terms

To reduce the user-perceived latency in web content delivery, many techniques have been proposed. One is a transmission time control mechanism that automatically adjusts the quality of inline objects, such as images on a web page, according to the client network bandwidth. Another is a transmission order control mechanism that can transmit inline objects in a specified order preferred by users. In this paper, we describe the development of a user adaptive content delivery mechanism that integrat ...

Keywords: HTTP extension, WWW, content adaptation, content delivery, quality of service, transmission order control, transmission time control, user profile

39 Infastructure for implementation: Adapting databases and WebDAV protocol

Bita Shadgar, Ian Holyer

May 2004   **Proceedings of the 13th international conference on World Wide Web**

Full text available: pdf(253.41 KB)   Additional Information: full citation, abstract, references, index terms

The ability of the Web to share data regardless of geographical location raises a new issue called remote authoring. With the Internet and Web browsers being independent of hardware, it becomes possible to build Web-enabled database applications. Many approaches are provided to integrate databases into the Web environment, which use the Web's protocol i.e. HTTP to transfer the data between clients and servers. However, those methods are affected by the HTTP shortfalls with regard to remote autho ...

40 Safely executing untrusted code: Upgrading transport protocols using untrusted mobile code

Parveen Patel, Andrew Whitaker, David Wetherall, Jay Lepreau, Tim Stack

October 2003   **Proceedings of the nineteenth ACM symposium on Operating systems principles**

Full text available: pdf(248.86 KB)   Additional Information: full citation, abstract, references, citings, index terms

In this paper, we present STP, a system in which communicating end hosts use untrusted mobile code to remotely upgrade each other with the transport protocols that they use to communicate. New transport protocols are written in a type-safe version of C, distributed out-of-band, and run in-kernel. Communicating peers select a transport protocol to use as part of a TCP-like connection setup handshake that is backwards-compatible with TCP and incurs minimum connection setup latency. New transports ...

Keywords: TCP-friendliness, deployment, implementation, transport protocols, untrusted mobile code

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41 Link layer retransmission schemes for circuit-mode data over the CDMA physical channel

Mooi Choo Chuah, Bharat Doshi, Subra Dravida, Richard Ejzak, Sanjiv Nanda

October 1997 **Mobile Networks and Applications**, Volume 2 Issue 2

Full text available: 📄 pdf(460.82 KB)   Additional Information: full citation, abstract, references, index terms

> In the last few years, wide-area data services over North American digital (TDMA and CDMA) cellular networks have been standardized. The standards were developed under three primary constraints: (i) compatibility with existing land-line standards and systems, (ii) compatibility with existing cellular physical layer standards that are optimized for voice, and (iii) market demands for quick solutions. In particular, the IS-95 CDMA air interface standard permits multiplexing of primary traffic ...

42 Papers: Notes on the use of RTP for shared workspace applications

Colin Perkins, Jon Crowcroft

April 2000   **ACM SIGCOMM Computer Communication Review**, Volume 30 Issue 2

Full text available: 📄 pdf(599.92 KB)   Additional Information: full citation, abstract, references, citings

> The Real-time Transport Protocol, RTP, has become the dominant protocol for streaming audio and video in IP-based environments. A number of proposals have been made which attempt to build on this success and apply RTP for shared workspace applications. We discuss the needs of such applications and the features provided by RTP, with an aim to showing why RTP is not appropriate for such uses.

43 Mobile IP and the IETF

Charles E. Perkins

April 2002 **ACM SIGMOBILE Mobile Computing and Communications Review**, Volume 6 Issue 2

Full text available: 📄 pdf(59.51 KB)   Additional Information: full citation, index terms

44 Workload analysis: Characterization of a large web site population with implications for content delivery

L. Bent, M. Rabinovich, G. M. Voelker, Z. Xiao

May 2004   **Proceedings of the 13th international conference on World Wide Web**

Full text available: 📄 pdf(727.47 KB)   Additional Information: full citation, abstract, references, index terms

> This paper presents a systematic study of the properties of a large number of Web sites hosted by a major ISP. To our knowledge, ours is the first comprehensive study of a large server farm that contains thousands of commercial Web sites. We also perform a simulation analysis to estimate potential performance benefits of content delivery networks (CDNs) for these Web sites. We make several interesting observations about the current usage of Web technologies and Web site performance characteristi ...
>
> **Keywords**: content distribution, cookie, http, measurement, performance, web caching, workload characterization

45 Speech I: Parsing spoken language: a semantic caseframe approach

Philip J. Hayes, Alexander G. Hauptmann, Jaime G. Carbonell, Masaru Tomita

August 1986 **Proceedings of the 11th coference on Computational linguistics**

Full text available: 📄 pdf(675.12 KB)   Additional Information: full citation, abstract, references, citings

> Parsing spoken input introduces serious problems not present in parsing typed natural language. In particular, indeterminacies and inaccuracies of acoustic recognition must be handled in an integral manner. Many techniques for parsing typed natural language do not adapt well to these extra demands. This paper describes an extension of semantic caseframe parsing to restricted-domain spoken input. The semantic caseframe grammar representation is the same as that used for earlier work on robust par ...

46 N for the price of 1: bundling web objects for more efficient content delivery

Craig E. Wills, Mikhail Mikhailov, Hao Shang

April 2001   **Proceedings of the tenth international conference on World Wide Web**

Full text available: pdf(208.61 KB)   Additional Information: full citation, references, citings, index terms

Keywords: HTTP, delta encoding, persistent connections, web performance

47 BPF+: exploiting global data-flow optimization in a generalized packet filter architecture

Andrew Begel, Steven McCanne, Susan L. Graham

August 1999   **ACM SIGCOMM Computer Communication Review , Proceedings of the conference on Applications, technologies, architectures, and protocols for computer communication,** Volume 29 Issue 4

Full text available: pdf(1.55 MB)   Additional Information: full citation, abstract, references, citings, index terms

A *packet filter* is a programmable selection criterion for classifying or selecting packets from a packet stream in a generic, reusable fashion. Previous work on packet filters falls roughly into two categories, namely those efforts that investigate flexible and extensible filter abstractions but sacrifice performance, and those that focus on low-level, optimized filtering representations but sacrifice flexibility. Applications like network monitoring and intrusion detection, however, requ ...

48 A third generation Smalltalk-80 implementation

Patrick J. Caudill, Allen Wirfs-Brock

June 1986   **ACM SIGPLAN Notices , Conference proceedings on Object-oriented programming systems, languages and applications,** Volume 21 Issue 11

Full text available: pdf(858.89 KB)   Additional Information: full citation, abstract, references, citings, index terms

A new, high performance Smalltalk-80™ implementation is described which builds directly upon two previous implementation efforts. This implementation supports a large object space while retaining compatibility with previous Smalltalk-80™ images. The implementation utilizes a interpreter which incorporates a generation based garbage collector and which does not have an object table. This paper describes the design decisions which lead to this implementation and reports preliminar ...

49 APL procedures (user defined operators, functions and token strings)

Robert Hodgkinson

May 1986   **ACM SIGAPL APL Quote Quad , Proceedings of the international conference on APL,** Volume 16 Issue 4

Full text available: pdf(817.35 KB)   Additional Information: full citation, abstract, references, citings, index terms

This paper describes some central aspects of an APL implementation on a Hewlett Packard Minicomputer. The development of these ideas led to an elegant, consistent underlying structure for all procedures, where a procedure is defined as a structured sequence of APL expressions, instances of which are niladic functions, ambivalent functions, monadic operators and dyadic operators. Further to this idea, the introduction of two new functions (tokenize and detokenize) and a single hyperoperator ...

50 Articles: The Deliberate Revolution

Mike Burner

March 2003   **Queue,** Volume 1 Issue 1

Full text available: pdf(326.81 KB) html(64.11 KB)   Additional Information: full citation, index terms

51 Position paper: Internet VoD cache server design

Carsten Griwodz, Michael Zink, Michael Liepert, Ralf Steinmetz

October 1999   **Proceedings of the seventh ACM international conference on Multimedia (Part 2)**

Full text available: pdf(500.15 KB)   Additional Information: full citation, references, index terms

Keywords: Internet, caching, video on demand

52 Storage protocol designs: NFS over RDMA

Brent Callaghan, Theresa Lingutla-Raj, Alex Chiu, Peter Staubach, Omer Asad

August 2003   **Proceedings of the ACM SIGCOMM workshop on Network-I/O convergence: experience, lessons, implications**

Full text available: pdf(126.79 KB)   Additional Information: full citation, abstract, references

The NFS filesystem was designed as a work-group filesystem, making a central file store available to and shared between a number of client workstations. However, more recently NFS has grown in popularity in the server room, connecting large application servers with back-end file servers. In this environment, where high-speed access to data is critical, high capacity interconnects like gigabit Ethernet, Fibre Channel and Infiniband are to be expected. With RDMA technology we can fully utilize the ...

53 <u>FLIP: a flexible interconnection protocol for heterogeneous internetworking</u>
Ignacio Solis, Katia Obraczka
August 2004 **Mobile Networks and Applications,** Volume 9 Issue 4
Full text available: pdf(549.43 KB)   Additional Information: full citation, abstract, references, index terms

This paper describes the Flexible Interconnection Protocol, or FLIP, whose main goal is to allow interconnection of heterogeneous devices with varying power, processing, and communication capabilities, ranging from simple sensors to more powerful computing devices such as laptops and desktops. The vision is that FLIP will be used to interconnect such devices forming clouds in the farthest branches/leaves of the Internet, while still providing connectivity with the existing IP-based Internet infr ...

Keywords: flexible headers, heterogeneous networks, optimized headers, sensor networks

54 <u>An architecture for packet-striping protocols</u>
Adiseshu Hari, George Varghese, Guru Parulkar
November 1999 **ACM Transactions on Computer Systems (TOCS),** Volume 17 Issue 4
Full text available: pdf(220.97 KB)   Additional Information: full citation, abstract, references, index terms, review

Link-striping algorithms are often used to overcome transmission bottlenecks in computer networks. Traditional striping algorithms suffer from two major disadvantages. They provide inadequate load sharing in the presence of variable-length packets, and may result in non-FIFO delivery of data. We describe a new family of link-striping algorithms that solves both problems. Our scheme applies to any layer that can provide multiple FIFO channels. We deal with variable-sized packets by showing h ...

Keywords: causal fair queuing, fair queuing, load sharing, multilink PPP, packet striping, stripe protocol, striping

55 <u>NIFDY: a low overhead, high throughput network interface</u>
Timothy Callahan, Seth Copen Goldstein
May 1995 **ACM SIGARCH Computer Architecture News , Proceedings of the 22nd annual international symposium on Computer architecture,** Volume 23 Issue 2
Full text available: pdf(1.80 MB)   Additional Information: full citation, abstract, references, citings, index terms

In this paper we present NIFDY, a network interface that uses admission control to reduce congestion and ensures that packets are received by a processor in the order in which they were sent, even if the underlying network delivers the packets out of order. The basic idea behind NIFDY is that each processor is allowed to have at most one outstanding packet to any other processor unless the destination processor has granted the sender the right to send multiple unacknowledged pa ...

56 <u>Static header as sentinel</u>
Massimo Ancona, Walter Cazzola
June 1998 **ACM SIGPLAN Notices,** Volume 33 Issue 6
Full text available: pdf(327.87 KB)   Additional Information: full citation, abstract, index terms

Writing code to handle dynamic data structures might seem to be an easy task, but write an efficient, readable and maintainable code is not such a simple task.In this short note we investigate some problems in developing code for handling dynamic data structures, and we propose techniques to overcome them. We take into account the interesting method proposed by Qiu in SIGPLAN Notices [3].Many authors have addressed the problem of handling dynamic data structures by suggesting several clever tric ...

Keywords: programming methodologies

57 <u>Structuring internet media streams with cueing protocols</u>
Jack Brassil, Henning Schulzrinne
August 2002 **IEEE/ACM Transactions on Networking (TON),** Volume 10 Issue 4
Full text available: pdf(282.39 KB)   Additional Information: full citation, abstract, references, citings, index terms

We propose a new, media-independent protocol for including program timing, structure, and identity information in Internet media streams. The protocol uses signaling messages called *cues* to indicate events whose timing is significant to receivers, such as the start or stop time of a media program. We describe the implementation and operation of a prototype Internet radio station which transmits program cues in audio broadcasts using the Real-Time Transport Protocol (RTP). A collection of ...

Keywords: content delivery networks, multimedia signaling, real-time transport protocol (RTP)

58 Whatever happened to the next-generation Internet?
Mark Weiser
September 2001 **Communications of the ACM**, Volume 44 Issue 9
Full text available: pdf(162.67 KB)   Additional Information: full citation, references, index terms
html(36.39 KB)

59 A proposal for an open DSS protocol
Dawn G. Gregg, Michael Goul
November 1999 **Communications of the ACM**, Volume 42 Issue 11
Full text available: pdf(194.83 KB)   Additional Information: full citation, references, citings, index terms
html(29.44 KB)

60 A novel scatternet scheme with IPv6 compatibility
Wei Kuang Lai, Der Hwa Tan
December 2003 **Mobile Networks and Applications**, Volume 8 Issue 6
Full text available: pdf(488.86 KB)   Additional Information: full citation, abstract, references, index terms

Some market analysts predict that there will be some 1.4 billion Bluetooth devices in operation by the year 2005 [8]. However, the current specification 1.1 does not describe the algorithms or mechanisms to create a scatternet due to a variety of unsolved issues [3,12]. Since the upper layers are not defined in Bluetooth, it is not possible to implement the scatternet in current specification. Hence in this research, we need make some modifications to Bluetooth protocol in order to support the t ...

Keywords: Bluetooth, IP, multicast, piconet, scatternet

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